

ECS Configuration Change Request

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Page(s)

1. Originator Allan C. Lane	2. Log Date: 8/11/00	3. CCR #: 00-0836 -	4. Rev:	5. Tel: x0539	6. Rm #: 3008A	7. Dept. DEV
8. CCR Title: Sybase File Descriptor Increase Technical Directive						
9. Originator Signature/Date <i>Allan C. Lane 8/11/2000</i> 0539			10. Class <i>II</i>	11. Type: CCR	12. Need Date: 8/23/2000	
13. Office Manager Signature/Date <i>William Frouse 8/11/00</i>			14. Category of Change: Other		15. Priority: (If "Emergency" fill in Block 28). Routine	
16. Documentation/Drawings Impacted: 920-TDX-016 910-TDA-021			17. Schedule Impact:		18. CI(s) Affected: MCI	
19. Release Affected by this Change: 5B			20. Date due to Customer:		21. Estimated Cost: None - Under 100K	
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other:						
23. Problem: (use additional Sheets if necessary) EDC found Sybase reporting "Insufficient User Connections" during testing with three Modes active. It was found that the number of User Connections available to Sybase depends on the number of Unix File Descriptors (FDs) available to Sybase. It was necessary to increase the number of FDs available to Sybase, so that the number of User Connections could then be increased. Note that the Unix kernel provides parameters for a Hard Limit number of FDs, and a Soft Limit. The Hard Limit should be at 1024, while the Soft Limit should be at 200. Individual users are allowed to adjust their Soft Limit up to the Hard Limit, if desired.						
24. Proposed Solution: (use additional sheets if necessary) 1. Use the instructions in the attached Technical Directive to increase the Soft Limit of FDs available to Sybase. 2. Note that the Hard Limit in all SGI platforms should be set to 1024. Use the instructions in the second Technical Directive to set the SGI Hard Limit to 1024 (down from the 2500 default)						
25. Alternate Solution: (use additional sheets if necessary)						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) With 5B testing, more than 2 Modes active will cause Sybase "insufficient User Connection" errors.						
27. Justification for Emergency (If Block 15 is "Emergency"):						
28. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input checked="" type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments: UPDATE SGI KERNEL PARAMETERS DOCUMENT			30. Work Assigned To:		31. CCR Closed Date:	
32. BDF/SCDV CCB Chair (Sign/Date): <i>Bryan V. [Signature] 8/14/00</i>			Disposition: <u>Approved</u> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. M&O CCB Chair (Sign/Date): <i>W. B. [Signature] 15 Aug 2000</i>			Disposition: <u>Approved</u> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

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